## SEQUENCE LISTING

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Tyr	Ala	Glu	Gln 520	Leu	Gln	Glu	Glu	Lys 525	Val	Ser	. Glu	Asp	Asp 530		Asp	
cag Gln	gac Asp	ttc Phe 535	Leu	cat His	ttg Leu	ttt Phe	aag Lys 540	ata Ile	gtg Val	gca Ala	gga Gly	gag Glu 545	ggc	aag Lys	gag Glu	1747
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gaa Glu	GIII	tgg Trp 695	ctg Leu	cag Gln	atg Met	acc Thr	atg Met 700	tgg Trp	gga Gly	tag	aggc	gctg	ta g	gagc	ctggt	2232
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Asn Pro Leu Phe Ile Met Asp Gly Ile Ser Pro Thr Asp Ile Cys Gln 85 90 95

Gly Ile Leu Gly Asp Cys Trp Leu Leu Ala Ala Ile Gly Ser Leu Thr 100 105 110

Thr Cys Pro Lys Leu Leu Tyr Arg Val Val Pro Arg Gly Gln Ser Phe 115 120 125

Lys Lys Asn Tyr Ala Gly Ile Phe His Phe Gln Ile Trp Gln Phe Gly 130 135 140

Gln Trp Val Asn Val Val Val Asp Asp Arg Leu Pro Thr Lys Asn Asp 145 150 155 160

Lys Leu Val Phe Val His Ser Thr Glu Arg Ser Glu Phe Trp Ser Ala 165 170 175

Leu Leu Glu Lys Ala Tyr Ala Lys Leu Ser Gly Ser Tyr Glu Ala Leu 180 185 190

Ser Gly Gly Ser Thr Met Glu Gly Leu Glu Asp Phe Thr Gly Gly Val 195 200 205

Ala Gln Ser Phe Gln Leu Gln Arg Pro Pro Gln Asn Leu Leu Arg Leu 210 215 220

Leu Arg Lys Ala Val Glu Arg Ser Ser Leu Met Gly Cys Ser Ile Glu 225 230 235 240

Val Thr Ser Asp Ser Glu Leu Glu Ser Met Thr Asp Lys Met Leu Val 245 250 255

Arg Gly His Ala Tyr Ser Val Thr Gly Leu Gln Asp Val His Tyr Arg 260 265 270

Gly Lys Met Glu Thr Leu Ile Arg Val Arg Asn Pro Trp Gly Arg Ile 275 280 285

Glu Trp Asn Gly Ala Trp Ser Asp Ser Ala Arg Glu Trp Glu Glu Val 290 295 300 Ala Ser Asp Ile Gln Met Gln Leu Leu His Lys Thr Glu Asp Gly Glu 305 310 315 320

Phe Trp Met Ser Tyr Gln Asp Phe Leu Asn Asn Phe Thr Leu Leu Glu 325 330 335

Ile Cys Asn Leu Thr Pro Asp Thr Leu Ser Gly Asp Tyr Lys Ser Tyr 340 345 350

Trp His Thr Thr Phe Tyr Glu Gly Ser Trp Arg Arg Gly Ser Ser Ala 355 360 365

Gly Gly Cys Arg Asn His Pro Gly Thr Phe Trp Thr Asn Pro Gln Phe 370 380

Lys Ile Ser Leu Pro Glu Gly Asp Asp Pro Glu Asp Asp Ala Glu Gly 385 390 395 400

Asn Val Val Cys Thr Cys Leu Val Ala Leu Met Gln Lys Asn Trp 405 410 415

Arg His Ala Arg Gln Gln Gly Ala Gln Leu Gln Thr Ile Gly Phe Val 420 425 430

Leu Tyr Ala Val Pro Lys Glu Phe Gln Asn Ile Gln Asp Val His Leu 435 440 445

Lys Lys Glu Phe Phe Thr Lys Tyr Gln Asp His Gly Phe Ser Glu Ile 450 455 460

Phe Thr Asn Ser Arg Glu Val Ser Ser Gln Leu Arg Leu Pro Pro Gly 465 470 475 480

Glu Tyr Ile Ile Ile Pro Ser Thr Phe Glu Pro His Arg Asp Ala Asp 485 490 495

Phe Leu Leu Arg Val Phe Thr Glu Lys His Ser Glu Ser Trp Glu Leu 500 505 510

Asp Glu Val Asn Tyr Ala Glu Gln Leu Gln Glu Glu Lys Val Ser Glu 515 520 525

Asp Asp Met Asp Gln Asp Phe Leu His Leu Phe Lys Ile Val Ala Gly 530 540

Glu Gly Lys Glu Ile Gly Val Tyr Glu Leu Gln Arg Leu Leu Asn Arg 545 550 555 560

Met Ala Ile Lys Phe Lys Ser Phe Lys Thr Lys Gly Phe Gly Leu Asp 565 570 575

Ala Cys Arg Cys Met Ile Asn Leu Met Asp Lys Asp Gly Ser Gly Lys 580 585 590

Leu Gly Leu Leu Glu Phe Lys Ile Leu Trp Lys Lys Leu Lys Lys Trp
595 600 605

Met Asp Ile Phe Arg Glu Cys Asp Gln Asp His Ser Gly Thr Leu Asn 610 615 620

5 14 5 1 1 1

Ser Tyr Glu Met Arg Leu Val Ile Glu Lys Ala Gly Ile Lys Leu Asn 625 630 635 640

Asn Lys Val Met Gln Val Leu Val Ala Arg Tyr Ala Asp Asp Leu 645 650 655

Ile Ile Asp Phe Asp Ser Phe Ile Ser Cys Phe Leu Arg Leu Lys Thr 660 665 670

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